

Form PTO-1449  
(Rev. )U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.  
41473/124196

SERIAL NO. T/B/A

APPLICANT  
Ross A. CAPUTO, Robert R. REICH, Jr., Robert J. THRASH, Jimmy  
FISHER, Davoud KHORZAD, and Thomas F. CULLENFILING DATE  
Filing Concurrently HerewithGROUP  
T/B/A

## U.S. PATENT DOCUMENTS

Examiner Initial	Cite No.	U.S. Patent Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MRC		Re 33,007	08/01/89	Bier	203	12	
		2,491,732	12/20/49	Hawkinson et al.	203	6	
		3,851,436	12/03/74	Fraser et al.	53	434	
		3,948,601	04/06/76	Fraser et al.	422	23	
		4,169,123	09/25/79	Moore, et al.	422	29	
		4,169,124	09/25/79	Forstrom et al.	422	33	
		4,230,663	10/28/80	Forstrom et al.	422	33	
		4,289,728	09/15/81	Peel, et al.	422	24	
		4,296,068	10/20/81	Hoshino	422	62	
		4,314,344	02/02/82	Johns et al.	364	500	
		4,321,232	03/23/82	Bithell	422	23	
		4,366,125	12/28/82	Kodera et al.	422	295	
		4,401,755	08/30/83	Weaver	435	34	
		4,427,772	01/24/84	Kodera et al.	435	27	
		4,437,567	03/20/84	Jeng	206	210	
		4,514,361	04/30/85	Hirsch	422	26	
		4,525,265	06/25/85	Abe et al.	204	403	
		4,528,268	07/09/85	Andersen et al.	455	31	
		4,642,165	02/10/87	Bier	203	12	
		4,643,876	02/17/87	Jacobs et al.	422	23	
		4,671,936	06/09/87	Barron	422	55	
		4,680,163	07/14/87	Blidschun et al.	422	28	
		4,707,334	11/17/87	Gerhard	422	28	
		4,717,661	01/05/88	McCormick et al.	435	31	
		4,743,537	05/10/88	McCormick et al.	435	296	
		4,756,882	07/12/88	Jacobs et al.	422	23	
		4,775,707	01/03/89	Niiyama et al.	435	288	
		4,797,255	01/10/89	Hatanaka et al.	422	28	
MRC		4,828,797	05/09/89	Zwarun et al.	422	55	

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Examiner Initial	Cite No.	U.S. Patent Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MRC		4,839,291	06/13/89	Weish et al.	435	296	
		4,843,867	07/04/89	Cummings	73	23	
		4,850,716	07/25/89	Baker et al.	374	160	
		4,863,688	09/05/89	Schmidt et al.	422	28	
		4,883,641	11/28/89	Wicks et al.	422	50	
		4,885,253	12/05/89	Kralovic	435	296	
		4,909,999	03/20/90	Cummings et al.	422	298	
		4,914,034	04/03/90	Weish et al.	435	296	
		4,955,145	09/11/90	Cummings et al.	422	28	
		4,992,247	02/12/91	Foti	422	304	
		5,084,239	01/28/92	Moulton et al.	422	22	
		5,114,670	05/19/92	Duffey	422	24	
		5,115,166	05/19/92	Campbell et al.	315	111-21	
		5,139,957	08/18/92	Grack	436	135	
		5,152,968	10/06/92	Foti et al.	422	304	
		5,167,927	12/01/92	Karlson	422	90	
		5,178,829	01/12/93	Moulton et al.	422	23	
		5,180,553	01/19/93	Singer et al.	422	28	
		5,184,046	02/02/93	Campbell	315	111-21	
		5,186,893	02/16/93	Moulton et al.	422	23	
		5,200,146	04/06/93	Goodman	422	23	
		5,244,629	09/14/93	Caputo et al.	422	22	
		5,288,460	02/22/94	Caputo et al.	422	23	
		5,317,896	06/07/94	Sheth et al.	73	29.01	
		5,325,020	06/28/94	Campbell, deceased et al.	315	111.21	
		5,364,590	11/15/94	Hillebrenner	422	28	
		5,376,332	12/27/94	Martens et al.	422	23	
		5,413,758	05/09/95	Caputo et al.	422	22	
		5,413,759	05/09/95	Campbell et al.	422	23	
MAU		5,413,760	05/09/95	Campbell et al.	422	24	

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Examiner Initial	Cite No.	U.S. Patent Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MRL		5,439,643	08/08/95	Liebert	422	25	
		5,445,792	08/29/95	Rickloff et al.	422	28	
		5,470,548	11/28/95	Hillebrenner	422	295	
		5,472,664	12/05/95	Campbell et al.	422	23	
		5,474,908	12/12/95	Kurono et al.	435	28	
		5,482,684	01/09/96	Martens et al.	422	119	
		5,486,459	01/23/96	Burnham et al.	435	31	
		5,492,672	02/20/96	Childers et al.	422	28	
		5,498,526	03/12/96	Caputo et al.	435	31	
		5,503,807	04/02/96	Griffiths et al.	422	186-04	
		5,508,009	04/16/96	Rickloff et al.	422	292	
		5,512,244	04/30/96	Griffiths et al.	422	23	
		5,516,489	05/14/96	Melgaard et al.	422	82-13	
		5,516,648	05/14/96	Malchesky et al.	435	31	
		5,518,591	05/21/96	Pullianen et al.	205	782	
		5,525,295	06/11/96	Pflug et al.	422	27	
		5,527,508	06/18/96	Childers et al.	422	33	
		5,534,221	07/09/96	Hillebrenner et al.	422	33	
		5,556,607	09/17/96	Childers et al.	422	300	
		5,593,649	01/14/97	Fisher et al.	422	305	
		5,600,142	02/04/97	Van Den Berg et al.	250	339-13	
		5,603,895	02/18/97	Martens et al.	422	23	
		5,608,156	03/04/97	Ando et al.	73	31-06	
		5,620,656	04/15/97	Wensky et al.	422	28	
		5,645,796	07/08/97	Caputo et al.	422	22	
		5,650,693	07/22/97	Campbell et al.	315	111-21	
		5,667,753	09/16/97	Jacobs et al.	422	29	
		5,674,450	10/07/97	Lin et al.	422	29	
		5,739,004	04/14/98	Woodson	435	31	
MRL		5,750,184	05/12/98	Imburgia	422	2-13	

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Examiner Initial	Cite No.	U.S. Patent Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MRL		5,753,196	05/19/98	Martens et al.	422	293	
		5,770,393	06/23/98	Dalmasso et al.	435	31	
		5,770,739	06/23/98	Lin et al.	548	335.5	
		5,779,973	07/14/98	Edwards et al.	422	28	
		5,783,146	07/21/98	Williams Jr.	422	26	
		5,788,925	08/04/98	Pai et al.	422	3	
		5,789,175	08/04/98	Priest	436	1	
		5,792,435	08/11/98	Mueller et al.	422	292	
		5,824,553	10/20/98	McCormick et al.	436	1	
		5,830,409	11/03/98	Childers et al.	422	30	
		5,830,683	11/03/98	Hendricks et al.	435	31	
		5,843,374	12/01/98	Sizer et al.	422	24	
		5,847,392	12/08/98	Van Den Berg et al.	250	339.09	
		5,847,393	12/08/98	Van Den Berg et al.	250	339.13	
		5,866,356	02/02/99	Albert et al.	435	31	
		5,870,885	02/16/99	Biddle et al.	53	436	
		5,872,004	02/16/99	Bolsen	435	287.4	
		5,872,359	02/16/99	Stewart et al.	250	339.12	
		5,876,666	03/02/99	Lin et al.	422	29	
		5,892,229	04/06/99	Crozier et al.	250	339.13	
		5,904,897	05/18/99	Kendall et al.	422	28	
		5,911,950	06/15/99	Chen et al.	422	28	
		5,916,816	06/29/99	Read	436	166	
		5,923,432	07/13/99	Kral	356	432	
		5,928,948	07/27/99	Malchesky	436	2	
		5,938,917	08/17/99	Mulchandani	205	782	
		5,939,033	08/17/99	Kendall et al.	422	305	
		5,942,408	08/24/99	Christensen et al.	455	31	
MRL							

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		FILING DATE Filing Concurrently Herewith	GROUP T/B/A

## U.S. PATENT DOCUMENTS

Examiner Initial	Cite No.	U.S. Patent Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MRC	—	5,942,754	08/24/99	Yamaguchi et al.	250	339.12	—
	—	5,972,199	10/26/99	Heller et al.	205	777.5	—
	—	5,980,825	11/09/99	Addy et al.	422	33	—
	—	5,989,852	11/23/99	Hendricks et al.	455	31	—
	—	6,030,579	02/29/00	Addy et al.	422	28	—
	—	6,036,918	03/14/00	Kowanko	422	33	—
	—	6,039,922	03/21/00	Swank et al.	422	24	—
	—	6,056,918	05/02/00	Palaniappan et al.	422	24	—
	—	6,071,483	06/06/00	Pastore	422	255	—
	—	6,075,246	06/13/00	Stock	250	343	—
	—	6,077,480	06/20/00	Edwards et al.	422	28	—
	—	6,094,523	07/25/00	Zelina et al.	392	399	—
	—	6,094,887	08/01/00	Swank et al.	53	426	—
	—	6,096,265	08/01/00	Mezger et al.	422	28	—
	—	6,120,730	09/19/00	Palaniappan et al.	422	28	—
	—	6,132,680	10/17/00	Addy et al.	422	33	—
	—	6,145,276	11/14/00	Palm et al.	53	426	—
	—	6,149,878	11/21/00	Jacob et al.	422	186.04	—
	—	6,156,267	12/05/00	Pai et al.	422	3	—
	—	6,174,502	01/16/01	Addy et al.	422	242	—
	—	6,183,691	02/06/01	Swank et al.	422	24	—
	—	6,189,368	02/20/01	Ichida et al.	73	31.06	—
MRC	—	6,203,756	03/20/01	Lin et al.	422	33	—

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## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
MRL		1,016,421	07/05/00	EP			✓ Yes	No
		1,582,060	12/31/80	GB			✓	
		2,089,213	06/23/82	GB			✓	
		WO 00/57927	10/05/00	PCT			Abstract	
		WO 00/65344	11/02/00	PCT			✓	
MRL		WO 01/13964	03/01/01	PCT			✓	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MRL		Association for the Advancement of Medical Instrumentation, "Standard for BIER/Steam Vessels." (1981)
		Association for the Advancement of Medical Instrumentation, "BIER/Steam Vessels," (1992);
		Association for the Advancement of Medical Instrumentation, "Standard for BIER/EO Gas Vessels" (1982)
		Association for the Advancement of Medical Instrumentation, "BIER/EO Gas Vessels," (1992)
		Joslyn Valve Corp., "Biological Indicator Evaluator Resistometer (BIER) — Laboratory Test Systems For Steam And Ethylene Oxide," 4 pages (undated)
		U.S. Pharmacopoeia XXII, Official Monograph "Biological Indicators," pages 1625-1626 (undated)
		Herzberg, <u>Molecular Spectra and Molecular Structure</u> , "II. Infrared and Raman Spectra of Polyatomic Molecules, page 532 (1945)
		Klapes et al., "Vapor-Phase Hydrogen Peroxide as a Surface Decontaminant and Sterilant," <u>Applied and Environmental Microbiology</u> , Vol. 56, No. 2, pp. 503-506 (1990)
		Skoog, Holler, Nieman, <u>Principles of Instrumental Analysis</u> , (5 <sup>th</sup> Edition), pp. 311-312 (1998)
MRL		Steinfeld, <u>Molecules and Radiation — An Introduction to Modern Molecular Spectroscopy</u> , p. 229 (1974)


EXAMINER

Margaret Chelvig

DATE CONSIDERED

03/02/2005

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Rev. )	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 41473/124196	SERIAL NO. 09/901,389
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>   (Use several sheets if necessary)		APPLICANTS Ross A. CAPUTO, Robert R. REICH, Jr., Robert J. THRASH, Jimmy FISHER, Davoud KHORZAD, and Thomas F. CULLEN	
		FILING DATE July 9, 2001	GROUP 1764

## U.S. PATENT DOCUMENTS

Examiner Initial	Cite No.	U.S. Patent Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MRL		5,633,424	5/27/97	Graves et al.	588	227	
MRL		4,742,667	5/10/88	Muller et al.	423	298	
MRL		5,078,976	1/7/92	Shibauchi et al.	423	298	
MRL		5,178,841	1/12/93	Vokins et al.	424	298	

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MRL		International Search Report for PCT Application Serial No. PCT/US02/21501, mailed November 5, 2002.
MRL		International Search Report for PCT Application Serial No. PCT/US02/21500, mailed November 5, 2002.
EXAMINER <i>Morgan R. Charlitz</i>		DATE CONSIDERED 03/02/2005
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

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## U.S. PATENT DOCUMENTS

Examiner Initial	Cite No.	U.S. Patent Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MRC		5,097,130	3/17/92	Koashi et al.	250	339	

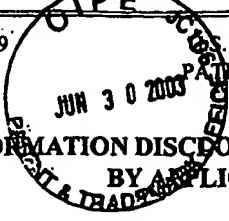
## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
MRC	2-276950	11/13/90	Japan			Yes	No
						(English abstract attached)	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MRC	International Search Report for PCT Application No. PCT/US02/21499, mailed December 18, 2002.
EXAMINER <i>Morgan R. Charlup</i>	DATE CONSIDERED <i>03/02/2005</i>
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MRC		5,007,232	4/16/91	Caudill	53	426	

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	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MRC	International "Written Opinion" for PCT Application Serial No. PCT/US02/21501, mailed June 5, 2003.
EXAMINER <i>Mazurk. Chelup</i>	DATE CONSIDERED 03/02/2005
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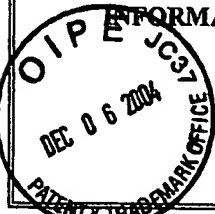
Examiner Initial	Cite No.	U.S. Patent Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MRL		5,258,162	11/2/93	Andersson et al.	422	28	
MRL		6,406,666	6/18/02	Cicha et al.	422	28	

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		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MRL		International "Written Opinion" for PCT Application Serial No. PCT/US02/21501, mailed June 5, 2003.
EXAMINER	DATE CONSIDERED	
Marguerite. Chabry	03/02/2005	
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MRL		6,736,379	5/18/04	Wegner et al.	261	127	
MRL		2002/0134051	9/26/02	Kurth	53	425	

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		Document Number	Date	Country	Class	Subclass	Translation	
MRL		WO 94/23813	10/27/94	PCT			Yes	No
MRL		EP 0 291 616	11/23/88	Europe			<del>Abstract</del>	
MRL		WO 00/33967	6/15/00	PCT			<del>Abstract</del>	
MRL		WO 01/44053	6/21/01	PCT			<del>Abstract</del>	✓

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Derwent English abstract for EP 0 291 616
MRL	Supplementary European Search Report mailed on October 28, 2004 for related European Application No. 02746911.3 ✓
EXAMINER <i>Morgan R. Chubij</i>	DATE CONSIDERED 03/02/2005
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